Message

From: Kraft, Andrew [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4A94A4F199B247778ABB02285A51B927-KRAFT, ANDREW]

Sent: 12/13/2021 2:21:56 PM

To: Soto, Vicki [soto.vicki@epa.gov]

CC: Glenn, Barbara [glenn.barbara@epa.gov]; Lees, Jennifer [Lees.Jennifer@epa.gov]

Subject: FW: Formaldehyde assessment fact sheet

Attachments: SummaryBriefingHCHOLeukemia031518.docx; SummaryBriefingHCHO_NPC031518.docx

From: Kraft, Andrew < Kraft. Andrew@epa.gov> Sent: Thursday, March 15, 2018 12:27 PM

To: Bussard, David <Bussard.David@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Bahadori, Tina

<Bahadori.Tina@epa.gov>

Cc: D'Amico, Louis <DAmico.Louis@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Ross, Mary <Ross.Mary@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bateson, Thomas

<Bateson.Thomas@epa.gov>; Glenn, Barbara <Glenn.Barbara@epa.gov>; Kraft, Andrew <Kraft.Andrew@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Hello all.

Please find attached the current fact sheets for both myeloid leukemia and nasopharyngeal cancer (we made some minor edits to the ML fact sheet). The citations should all be HERO-linked.

Please let us know if you have further suggestions, requests, feedback, etc.

Thanks, BFFs

From: Bussard, David

Sent: Thursday, March 15, 2018 11:05 AM

To: Glenn, Barbara < Glenn.Barbara@epa.gov>; Kraft, Andrew < Kraft.Andrew@epa.gov>; Thayer, Kris

<thayer.kris@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>

Cc: D'Amico, Louis <a href="mailto:Continuous continuous continuou

<<u>Bateson.Thomas@epa.gov</u>>

Subject: RE: Formaldehyde assessment fact sheet

Great.

You can put them where you think they would help.

There was an attachment (resending) in which I made those changes in places I thought they might fit.

D

From: Glenn, Barbara

Sent: Thursday, March 15, 2018 9:25 AM

To: Kraft, Andrew <Kraft.Andrew@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Bussard, David

<<u>Bussard.David@epa.gov></u>; Bahadori, Tina <<u>Bahadori.Tina@epa.gov></u>

Cc: D'Amico, Louis DAmico.Louis@epa.gov">DAmico.Louis@epa.gov; Lavoie, Emma Lavoie, Emma@epa.gov; Ross, Mary Ross, Mary <a href="mailto:Ramasamy.Santhini.Ramasamy.Santhini.Ramasamy.

Subject: RE: Formaldehyde assessment fact sheet

We will work on incorporating those sentiments as I think it will help

From: Kraft, Andrew

Sent: Thursday, March 15, 2018 9:08 AM

To: Thayer, Kris < thayer.kris@epa.gov>; Bussard, David < Bussard.David@epa.gov>; Bahadori, Tina < Bahadori.Tina@epa.gov>

Cc: D'Amico, Louis DAmico.Louis@epa.gov">DAmico.Louis@epa.gov; Lavoie, Emma Lavoie.Emma@epa.gov; Ross, Mary Ross, Mary <a href="mailto:Ramasamy.Santhini.Ramasamy.Santhini.Ramasamy.Santhini.Ramasamy.Santhini.Ramasamy.Santhini.Ramasamy.Ramasamy.Santhini.Ramasamy.Ra

Subject: RE: Formaldehyde assessment fact sheet

Would these suggested changes be on the primary ("overall") conclusions?

I feel that these details are more appropriate within the descriptions of the specific lines of evidence.

Also, it is not only the stronger studies that are finding the associations (see Tom's prior email), so the wording probably will need a bit of refinement, wherever it lands.

From: Thayer, Kris

Sent: Thursday, March 15, 2018 9:01 AM

To: Bussard, David <<u>Bussard.David@epa.gov</u>>; Kraft, Andrew <<u>Kraft.Andrew@epa.gov</u>>; Bahadori, Tina <<u>Bahadori.Tina@epa.gov</u>>

Cc: D'Amico, Louis DAmico.Louis@epa.gov; Lavoie, Emma Lavoie.Emma@epa.gov; Ross, Mary Ross, Mary <a href="mailto:Ramasamy.Santhini.Ramasamy.Santhini.Ramasamy.Ramas

Subject: RE: Formaldehyde assessment fact sheet

Your suggested work changes would help.

From: Bussard, David

Sent: Thursday, March 15, 2018 8:48 AM

To: Thayer, Kris < thayer.kris@epa.gov; Kraft, Andrew Kraft, Andrew@epa.gov>; Bahadori, Tina@epa.gov>

Cc: D'Amico, Louis DAmico.Louis@epa.gov">DAmico.Louis@epa.gov; Lavoie, Emma Lavoie, Emma@epa.gov; Ross, Mary Ross, Mary <a href="mailto:Ramasamy.Santhini.Ramasam

Subject: RE: Formaldehyde assessment fact sheet

Resending in case the attached file did not have my last set of wording suggestions. (I may not have saved it before attaching it.)

From: Bussard, David

Sent: Thursday, March 15, 2018 8:46 AM

To: Thayer, Kris < thayer.kris@epa.gov; Kraft, Andrew Kraft, Andrew@epa.gov>; Bahadori, Tina@epa.gov

Cc: D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>>; Lavoie, Emma <<u>Lavoie.Emma@epa.gov</u>>; Ross, Mary <<u>Ross.Mary@epa.gov</u>>; Ramasamy, Santhini <<u>Ramasamy, Santhini@epa.gov</u>>; Bateson, Thomas

<Bateson.Thomas@epa.gov>; Glenn, Barbara <Glenn.Barbara@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

I do think we could add a sentence as to which were the highest quality studies to the legend for the figure.

I reread carefully given Kris's comment and Tom's, I am wondering if there is a short phrase that could capture the essence of Tom's quote.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

David

From: Thayer, Kris

Sent: Thursday, March 15, 2018 5:43 AM

To: Kraft, Andrew < Kraft.Andrew@epa.gov>; Bahadori, Tina Bahadori.Tina@epa.gov>; Bussard,

David <<u>Bussard.David@epa.gov</u>>

Cc: D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>>; Lavoie, Emma <<u>Lavoie.Emma@epa.gov</u>>; Ross, Mary <Ross.Mary@epa.gov>; Ramasamy, Santhini <Ramasamy, Santhini@epa.gov>; Bateson,

Thomas sarbara sarbara@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Thanks!

Ex. 5 Deliberative Process (DP)

From: Kraft, Andrew

Sent: Wednesday, March 14, 2018 4:45 PM

To: Bahadori, Tina <Bahadori.Tina@epa.gov>; Bussard, David <Bussard.David@epa.gov>;

Thayer, Kris <thayer.kris@epa.gov>

Cc: D'Amico, Louis DAmico.Louis@epa.gov; Lavoie, Emma Lavoie, Emma@epa.gov; Ross, Mary Ross, Mary <a href="mailto:Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Ramasamy.Rama

Subject: RE: Formaldehyde assessment fact sheet

Happy Wednesday afternoon, Tina and friends.

Please find attached a revised draft of the fact sheet on studies and decisions specific to the evaluation of formaldehyde exposure and myeloid leukemia. Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

We hope that this hits closer to the mark.

We are working on a parallel draft for nasal cancers, and hope to send that to you tomorrow (morning).

Please let us know if there are other changes that you think would strengthen the documents.

BFFs (Best Friends of Formaldehyde)

From: Bahadori, Tina

Sent: Wednesday, March 07, 2018 6:29 PM

To: Kraft, Andrew < Kraft. Andrew@epa.gov>; Bussard, David < Bussard. David@epa.gov>; Thayer,

Kris <thayer.kris@epa.gov>; Glenn, Barbara <Glenn.Barbara@epa.gov>

Cc: D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>>; Lavoie, Emma <<u>Lavoie.Emma@epa.gov</u>>; Ross,

Mary <Ross.Mary@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

I like this approach and I think if you stabilize a draft, we can run it by Jennifer as draft, to see if it works for her.

Tina

From: Kraft, Andrew

Sent: Wednesday, March 7, 2018 4:39 PM

To: Bussard, David <Bussard.David@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>;

Thayer, Kris < thayer.kris@epa.gov>; Glenn, Barbara < Glenn.Barbara@epa.gov>

Cc: D'Amico, Louis < DAmico.Louis@epa.gov>; Lavoie, Emma < Lavoie. Emma@epa.gov>; Ross,

Mary <Ross.Mary@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Thanks, David. We don't need to have both figures.

Ex. 5 Deliberative Process (DP)

From: Bussard, David

Sent: Wednesday, March 07, 2018 4:08 PM

To: Kraft, Andrew < Kraft. Andrew@epa.gov>; Bahadori, Tina < Bahadori. Tina@epa.gov>; Thayer,

Kris <thayer.kris@epa.gov>; Glenn, Barbara <Glenn.Barbara@epa.gov>

Cc: D'Amico, Louis < DAmico.Louis@epa.gov>; Lavoie, Emma < Lavoie.Emma@epa.gov>; Ross, Mary <Ross.Mary@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov> Subject: RE: Formaldehyde assessment fact sheet Some reactions. (Andrew, thank you for providing a first-draft or mock-up!) <u>I like the figures</u> if we can make them **larger** (such as changing to landscape lay-out). Ex. 5 Deliberative Process (DP)

David

From: Kraft, Andrew

Sent: Wednesday, March 07, 2018 3:21 PM

To: Bahadori, Tina Thayer, Kris Thayer, Kris Thayer, Kris Thayer.kris@epa.gov>

**C: D'Amico, Louis Thayer.kris@epa.gov>

**Thayer.kris@epa.gov>

**Thayer.kris@epa.gov

**Thayer.kris@epa.gov

**Thayer.kris@epa.gov

**Thayer.kris@epa.gov

**Thayer.kris@epa.gov

**Thayer.kris@epa.gov

**Thaye

Ross, Mary <Ross.Mary@epa.gov>; Ramasamy, Santhini

<Ramasamy.Santhini@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Hi Tina,

I wanted to check in for feedback before I went too far down the road of developing this "table", and before we went through our NCEA-W refinements. Attached is the beginning of a draft for leukemia focusing on the type of details we might include on the epidemiologic studies. I would summarize the human mechanistic studies as more of a list, and the animal data would be described very briefly.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thanks. I will jump right back on developing this further once I hear back, after which I'll run it through Tom, Santhini, and David before circling it back to this group.

-Andrew

From: Bahadori, Tina

Sent: Wednesday, March 07, 2018 1:44 PM

To: Kraft, Andrew < Kraft. Andrew@epa.gov >; Thayer, Kris < thayer.kris@epa.gov >; Bussard, David < Bussard. David@epa.gov >; Glenn, Barbara < Glenn. Barbara@epa.gov > Cc: D'Amico, Louis < DAmico. Louis@epa.gov >; Lavoie, Emma < Lavoie. Emma@epa.gov >;

Ross, Mary < Ross. Mary@epa.gov >; Ramasamy, Santhini

<Ramasamy.Santhini@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Jennifer stopped by...

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thanks, Tina

From: Kraft, Andrew

Sent: Wednesday, March 7, 2018 9:38 AM

To: Thayer, Kris < thayer.kris@epa.gov>; Bahadori, Tina < Bahadori.Tina@epa.gov>; Bussard, David < Bussard.David@epa.gov>; Glenn, Barbara < Glenn.Barbara@epa.gov> **Cc:** D'Amico, Louis < DAmico.Louis@epa.gov>; Lavoie, Emma < Lavoie.Emma@epa.gov>;

Ross, Mary < Ross. Mary@epa.gov>; Ramasamy, Santhini

<Ramasamy.Santhini@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Can we send a bunch of forest plots? Kidding. For our conclusions it probably wouldn't be too hard (it will take time and will likely be more studies than he might be expecting, but doable). For other agencies, ... ugh.

I will circle with David and Santhini sometime this afternoon (Barbara is out of town) and get back to you with a plan.

Thanks for sharing, Andrew

From: Thayer, Kris

Sent: Wednesday, March 07, 2018 9:34 AM

To: Bahadori, Tina < Bahadori, Tina@epa.gov >; Bussard, David

<<u>Bussard.David@epa.gov</u>>; Glenn, Barbara <<u>Glenn.Barbara@epa.gov</u>>; Kraft, Andrew

<Kraft.Andrew@epa.gov>

Cc: D'Amico, Louis < DAmico.Louis@epa.gov>; Lavoie, Emma < Lavoie. Emma@epa.gov>;

Ross, Mary < Ross. Mary@epa.gov >; Ramasamy, Santhini

<Ramasamy.Santhini@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Yeah. Uh. It's called an ASSESSMENT.

From: Bahadori, Tina

Sent: Wednesday, March 7, 2018 9:29 AM

To: Bussard, David <<u>Bussard.David@epa.gov</u>>; Thayer, Kris <<u>thayer.kris@epa.gov</u>>; Glenn, Barbara <<u>Glenn.Barbara@epa.gov</u>>; Kraft, Andrew <<u>Kraft.Andrew@epa.gov</u>> Cc: D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>>; Lavoie, Emma <<u>Lavoie.Emma@epa.gov</u>>;

Ross, Mary < Ross. Mary@epa.gov >; Ramasamy, Santhini

<Ramasamy.Santhini@epa.gov>

Subject: FW: Formaldehyde assessment fact sheet

Before I recoil with hysterical laughter, can someone tell me how one would even do this?

From: Orme-Zavaleta, Jennifer

Sent: Wednesday, March 7, 2018 9:14 AM

To: D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>>; Bahadori, Tina <<u>Bahadori.Tina@epa.gov</u>> **Cc:** Rodan, Bruce <<u>rodan.bruce@epa.gov</u>>; Robbins, Chris <<u>Robbins.Chris@epa.gov</u>>;

Yamada, Richard (Yujiro) < <u>yamada.richard@epa.gov</u>> **Subject:** RE: Formaldehyde assessment fact sheet

Morning all, had a call from Ryan who greatly appreciated this information and has an additional request

Ex. 5 Deliberative Process (DP)

Let me know if you have questions, thanks

Jennifer Orme-Zavaleta, PhD
Principal Deputy Assistant Administrator for Science
USEPA Office of Research and Development

DC: 202-564-6620 RTP: 919-541-2283 Ex. 6 Personal Privacy (PP)

orme-zavaleta.jennifer@epa.gov

From: D'Amico, Louis

Sent: Tuesday, February 27, 2018 9:28 AM

To: Orme-Zavaleta, Jennifer < Orme-Zavaleta.Jennifer@epa.gov>; Bahadori, Tina

<Bahadori.Tina@epa.gov>

Cc: Rodan, Bruce < rodan.bruce@epa.gov>; Robbins, Chris < Robbins.Chris@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

New and improved, now with a bottom lines section. Let us know if you need anything else.

-Lou

(NOTE NEW CONTACT

INFORMATION)

Louis D'Amico, Ph.D.

Assistant Center Director, Communications and Regulatory Support - National Center for Environmental Assessment

Associate Director for Policy and Communications - Human Health Risk Assessment National Research Program

U.S. EPA Office of Research and Development

damico.louis@epa.gov

O: (202) 564-4605 Ex. 6 Personal Privacy (PP)

From: Orme-Zavaleta, Jennifer

Sent: Thursday, February 22, 2018 9:11 AM

To: D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>>; Bahadori, Tina <<u>Bahadori.Tina@epa.gov</u>>
Cc: Rodan, Bruce <<u>rodan.bruce@epa.gov</u>>; Robbins, Chris <<u>Robbins.Chris@epa.gov</u>>

Subject: RE: Formaldehyde assessment fact sheet

This looks good, thanks Lou.

Ex. 5 Deliberative Process (DP)

Jennifer Orme-Zavaleta, PhD Principal Deputy Assistant Administrator for Science USEPA Office of Research and Development

DC: 202-564-6620 RTP: 919-541-2283 Ex. 6 Personal Privacy (PP)

orme-zavaleta.jennifer@epa.gov

From: D'Amico, Louis

Sent: Wednesday, February 21, 2018 6:20 PM

To: Orme-Zavaleta, Jennifer < Orme-Zavaleta. Jennifer@epa.gov>; Bahadori, Tina

<Bahadori.Tina@epa.gov>

Cc: Rodan, Bruce < rodan.bruce@epa.gov>; Robbins, Chris < Robbins.Chris@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

Here's a new draft of a formaldehyde fact sheet. Hopefully a little closer to the mark?

Let us know next steps!

-Lou

(NOTE NEW CONTACT

INFORMATION)

Louis D'Amico, Ph.D.

Assistant Center Director, Communications and Regulatory Support - National Center for Environmental Assessment

Associate Director for Policy and Communications - Human Health Risk Assessment National Research Program

U.S. EPA Office of Research and Development

damico.louis@epa.gov

O: (202) 564-460 Ex. 6 Personal Privacy (PP)

From: Orme-Zavaleta, Jennifer

Sent: Wednesday, February 21, 2018 9:30 AM **To:** Bahadori, Tina <Bahadori, Tina@epa.gov>

Cc: Rodan, Bruce < rodan.bruce@epa.gov>; Robbins, Chris < Robbins.Chris@epa.gov>;

D'Amico, Louis < DAmico.Louis@epa.gov>

Subject: RE: Formaldehyde assessment fact sheet

It's a start – go back to what I sent you on PFAS - Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Jennifer Orme-Zavaleta, PhD
Principal Deputy Assistant Administrator for Science
USEPA Office of Research and Development

DC: 202-564-6620 RTP: 919-541-2283 Ex. 6 Personal Privacy (PP)

orme-zavaleta.jennifer@epa.gov

From: Bahadori, Tina

Sent: Tuesday, February 20, 2018 5:51 PM

To: Orme-Zavaleta, Jennifer <Orme-Zavaleta.Jennifer@epa.gov>

Cc: Rodan, Bruce < rodan.bruce@epa.gov >; Robbins, Chris < Robbins.Chris@epa.gov >;

D'Amico, Louis <<u>DAmico.Louis@epa.gov</u>> **Subject:** Formaldehyde assessment fact sheet

Hi Jennifer,

Please find attached the fact sheet for the formaldehyde assessment. We tried to make it as plain English as possible. Please take a look and let us know if it works or if you would like changes made. For now, we left Richard off until we know we have met your target.

Thanks, Tina

Tina Bahadori, Sc.D.

Director, National Center for Environmental Assessment (EPA/ORD/NCEA)
National Program Director, Human Health Risk Assessment (EPA/ORD/HHRA)
RRB Room 71210; Telephone: 202-564-7903 Ex. 6 Personal Privacy (PP)